Shimaa Eissa

List of Publications by Year in descending order

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58 papers	2,844 citations	201674 27 h-index	168389 53 g-index
58 all docs	58 docs citations	58 times ranked	3517 citing authors

#	Article	IF	Citations
1	Recent developments towards portable point-of-care diagnostic devices for pathogen detection. Sensors & Diagnostics, 2022, 1, 87-105.	3.8	31
2	Diagnostic biosensors for coronaviruses and recent developments. , 2022, , 261-278.		4
3	Determination of minimal sequence for zearalenone aptamer by computational docking and application on an indirect competitive electrochemical aptasensor. Analytical and Bioanalytical Chemistry, 2021, 413, 3861-3872.	3.7	14
4	Voltammetric-based immunosensor for the detection of SARS-CoV-2 nucleocapsid antigen. Mikrochimica Acta, 2021, 188, 199.	5.0	59
5	Sensitive detection of mitragynine from Mitragyna speciosa Korth using an electrochemical immunosensor based on multiwalled carbon nanotubes/chitosan- modified carbon electrode. Sensors and Actuators B: Chemical, 2021, 345, 130356.	7.8	10
6	Development of a Low-Cost Cotton-Tipped Electrochemical Immunosensor for the Detection of SARS-CoV-2. Analytical Chemistry, 2021, 93, 1826-1833.	6.5	173
7	Combination of Carbon Nanofiber-Based Electrochemical Biosensor and Cotton Fiber: A Device for the Detection of the Middle-East Respiratory Syndrome Coronavirus. ACS Omega, 2021, 6, 32072-32080.	3.5	11
8	InÂvitro selection of DNA aptamers and their integration in a competitive voltammetric biosensor for azlocillin determination in waste water. Analytica Chimica Acta, 2020, 1101, 149-156.	5.4	27
9	Diagnostic techniques for COVID-19 and new developments. Talanta, 2020, 220, 121392.	5.5	116
10	Ultrasensitive peptide-based multiplexed electrochemical biosensor for the simultaneous detection of Listeria monocytogenes and Staphylococcus aureus. Mikrochimica Acta, 2020, 187, 486.	5.0	54
11	Probing the influence of graphene oxide sheets size on the performance of label-free electrochemical biosensors. Scientific Reports, 2020, 10, 13612.	3.3	20
12	Voltammetric Labelâ€free Immunosensors for the Diagnosis of Cystic Echinococcosis. Electroanalysis, 2020, 32, 1170-1177.	2.9	5
13	Electrochemical determination of zearalenone using aÂlabel-free competitive aptasensor. Mikrochimica Acta, 2020, 187, 266.	5.0	27
14	Selection, characterization, and electrochemical biosensing application of DNA aptamers for sepiapterin. Talanta, 2020, 216, 120951.	5.5	9
15	A dual electrochemical/colorimetric magnetic nanoparticle/peptide-based platform for the detection of Staphylococcus aureus. Analyst, The, 2020, 145, 4606-4614.	3.5	44
16	Disposable electrochemical immunosensor array for the multiplexed detection of the drug metabolites morphine, tetrahydrocannabinol and benzoylecgonine. Mikrochimica Acta, 2019, 186, 523.	5.0	29
17	Electrochemical SELEX Technique for the Selection of DNA Aptamers against the Small Molecule 11-Deoxycortisol. ACS Applied Bio Materials, 2019, 2, 2624-2632.	4.6	29
18	An electrochemical immunosensor for the corona virus associated with the Middle East respiratory syndrome using an array of gold nanoparticle-modified carbon electrodes. Mikrochimica Acta, 2019, 186, 224.	5.0	322

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19	A comparison of the performance of voltammetric aptasensors for glycated haemoglobin on different carbon nanomaterials-modified screen printed electrodes. Materials Science and Engineering C, 2019, 101, 423-430.	7.3	23
20	Electrochemical selection of a DNA aptamer, and an impedimetric method for determination of the dedicator of cytokinesis 8 by self-assembly of a thiolated aptamer on a gold electrode. Mikrochimica Acta, 2019, 186, 828.	5.0	6
21	AntibodiesVersusAptamers: A Comparative View. RSC Detection Science, 2019, , 303-331.	0.0	4
22	Truncated aptamers for total and glycated hemoglobin, and their integration into a graphene oxide-based fluorometric method for high-throughput screening for diabetes. Mikrochimica Acta, 2018, 185, 256.	5.0	26
23	A rapid colorimetric immunoassay for the detection of pathogenic bacteria on poultry processing plants using cotton swabs and nanobeads. Mikrochimica Acta, 2018, 185, 164.	5.0	33
24	Fluorometric graphene oxide-based detection of Salmonella enteritis using a truncated DNA aptamer. Mikrochimica Acta, 2018, 185, 61.	5.0	61
25	Rapid colorimetric lactoferrin-based sandwich immunoassay on cotton swabs for the detection of foodborne pathogenic bacteria. Talanta, 2018, 185, 275-280.	5.5	57
26	Electrochemical immunosensors for the detection of survival motor neuron (SMN) protein using different carbon nanomaterials-modified electrodes. Biosensors and Bioelectronics, 2018, 101, 282-289.	10.1	55
27	In Vitro Selection of Specific DNA Aptamers Against the Anti-Coagulant Dabigatran Etexilate. Scientific Reports, 2018, 8, 13290.	3.3	18
28	Carbon nanofiber-based multiplexed immunosensor for the detection of survival motor neuron 1, cystic fibrosis transmembrane conductance regulator and Duchenne Muscular Dystrophy proteins. Biosensors and Bioelectronics, 2018, 117, 84-90.	10.1	18
29	Development of Impedimetric Immunosensors for the Diagnosis of DOCK8 and STAT3 Related Hyperâ€Immunoglobulin E Syndrome. Electroanalysis, 2018, 30, 2021-2027.	2.9	2
30	Multiplexed detection of DOCK8, PGM3 and STAT3 proteins for the diagnosis of Hyper-Immunoglobulin E syndrome using gold nanoparticles-based immunosensor array platform. Biosensors and Bioelectronics, 2018, 117, 613-619.	10.1	20
31	Selection and Characterization of DNA Aptamers for Electrochemical Biosensing of Carbendazim. Analytical Chemistry, 2017, 89, 3138-3145.	6.5	113
32	High affinity truncated DNA aptamers for the development of fluorescence based progesterone biosensors. Analytical Biochemistry, 2017, 525, 78-84.	2.4	72
33	Corrosion resistance of monolayer hexagonal boron nitride on copper. Scientific Reports, 2017, 7, 42139.	3.3	112
34	Competitive voltammetric morphine immunosensor using a gold nanoparticle decorated graphene electrode. Mikrochimica Acta, 2017, 184, 2281-2289.	5.0	36
35	Aptamer- Based Label-Free Electrochemical Biosensor Array for the Detection of Total and Glycated Hemoglobin in Human Whole Blood. Scientific Reports, 2017, 7, 1016.	3.3	67
36	Electrochemical Immunosensors for the Rapid Screening of Cystic Fibrosis and Duchenne Muscular Dystrophy. Electroanalysis, 2017, 29, 1911-1917.	2.9	8

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37	Ultrasensitive Labelâ€free Electrochemical Immunosensors for Multiple Cell Surface Biomarkers on Liver Cancer Stem Cells. Electroanalysis, 2017, 29, 1994-2000.	2.9	10
38	In vitro selection of DNA aptamers targeting Î²-lactoglobulin and their integration in graphene-based biosensor for the detection of milk allergen. Biosensors and Bioelectronics, 2017, 91, 169-174.	10.1	96
39	Label-free Impedimetric Immunosensors for Liver Cancer Stem Cells. Procedia Technology, 2017, 27, 287-289.	1.1	4
40	Advances in Biosensor Technologies for Food Allergen Monitoring and Diagnosis. , 2017, , 289-310.		0
41	CHAPTER 14. Graphene-Based Biosensors for Food Analysis. Food Chemistry, Function and Analysis, 2016, , 327-353.	0.2	1
42	Aptamer-based competitive electrochemical biosensor for brevetoxinâ€2. Biosensors and Bioelectronics, 2015, 69, 148-154.	10.1	131
43	Functionalized CVD monolayer graphene for label-free impedimetric biosensing. Nano Research, 2015, 8, 1698-1709.	10.4	59
44	Aptamer-Based Label-Free Impedimetric Biosensor for Detection of Progesterone. Analytical Chemistry, 2015, 87, 1075-1082.	6.5	140
45	Development of Electrochemical Aptamer-Based Biosensors for the Detection of Hormonal Contaminants in Water. ECS Meeting Abstracts, 2015, , .	0.0	0
46	Aptamer-Based Electrochemical Biosensors for Marine Toxins. ECS Meeting Abstracts, 2015, , .	0.0	0
47	Selection, Characterization, and Application of High Affinity Microcystin-Targeting Aptamers in a Graphene-Based Biosensing Platform. ECS Meeting Abstracts, 2015, , .	0.0	0
48	Label-Free Voltammetric Aptasensor for the Sensitive Detection of Microcystin-LR Using Graphene-Modified Electrodes. Analytical Chemistry, 2014, 86, 7551-7557.	6.5	126
49	Selection and Identification of DNA Aptamers against Okadaic Acid for Biosensing Application. Analytical Chemistry, 2013, 85, 11794-11801.	6.5	117
50	Design and Fabrication of Integrated Multianalyte Sensing Platform With Magnetic Micro-Coils. Journal of Microelectromechanical Systems, 2013, 22, 1339-1346.	2.5	2
51	A graphene-based label-free voltammetric immunosensor for sensitive detection of the egg allergen ovalbumin. Analyst, The, 2013, 138, 4378.	3.5	88
52	Selection, Characterization, and Biosensing Application of High Affinity Congener-Specific Microcystin-Targeting Aptamers. Environmental Science & Technology, 2012, 46, 10697-10703.	10.0	109
53	Electrochemical immunosensor for the milk allergen Î²-lactoglobulin based on electrografting of organic film on graphene modified screen-printed carbon electrodes. Biosensors and Bioelectronics, 2012, 38, 308-313.	10.1	129
54	A graphene-based electrochemical competitive immunosensor for the sensitive detection of okadaic acid in shellfish. Nanoscale, 2012, 4, 7593.	5.6	70

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55	Electrochemical study of glimepiride and its complexation with Î²-cyclodextrin. Collection of Czechoslovak Chemical Communications, 2011, 76, 13-25.	1.0	5
56	Electrochemical study of indapamide and its complexation with Î²-cyclodextrin. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2011, 71, 95-102.	1.6	18
57	Voltammetric and spectrophotometric study on the complexation of glibenclamide with Î²-cyclodextrin. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2010, 68, 417-421.	1.6	12
58	Electrochemical Study of Gliclazide and Its Complexation with Î²â€Cyclodextrin. Electroanalysis, 2010, 22, 2991-2996.	2.9	12